

15. A method for a panel controller to provide pixel data to a display panel, the method comprising the panel controller:

receiving a configuration parameter from the display panel; and

configuring an operational characteristic of the panel controller in response to the configuration parameter.

16. The method of claim 15 wherein configuring the operational characteristic comprises:

altering the pixel data.

17. The method of claim 15 wherein configuring the operational characteristic comprises:

adjusting control logic in the panel controller to scale an output image to match a resolution of the display panel.

18. The method of claim 15 wherein configuring the operational characteristic comprises:

selecting a subset of pixel data output channels to carry the pixel data to the display panel.

19. The method of claim 15 wherein configuring the operational characteristic comprises:

adapting operation of the panel controller according to a display technology type of the display panel.

20. The method of claim 15 wherein configuring the operational characteristic comprises:

setting a number of gray scale levels output by the panel controller.

21. The method of claim 15 wherein configuring the operational characteristic comprises:

selecting a modulation index for pumping pixel data to the display panel at a multiple of a clock frequency of the display panel.

22. The method of claim 21 wherein the multiple is one of two, four, eight, sixteen, and thirty-two, and the pumping comprises sending multiple bits per pixel data channel in a phased pumping arrangement.

23. The method of claim 15 wherein configuring the operational characteristic comprises:

outputting one of progressive scan lines and interlaced scan lines as determined by the parameter.

24. The method of claim 15 wherein configuring the operational characteristic comprises:

selecting a clock frequency.

25. The method of claim 15 wherein configuring the operational characteristic comprises:

selecting a scan rate.

26. The method of claim 15 wherein configuring the operational characteristic comprises:

adjusting pixel data output to compensate for degradation of the display panel.

27. The method of claim 26 wherein adjusting comprises altering a brightness level of pixel data.

28. The method of claim 15 wherein configuring the operational characteristic comprises:

selecting a color space.

29. The method of claim 15 wherein configuring the operational characteristic comprises:

selecting a color depth.

30. A method comprising:

sending a configuration parameter from a display panel to a panel controller;

reconfiguring the panel controller in accordance with the configuration parameter; and

sending pixel data from the panel controller to the display panel in a manner different than would have been but for the reconfiguring.

31. The method of claim 30 wherein:

the sending comprises sending more than one configuration parameter;

the reconfiguring is further in accordance with the more than one configuration parameter; and

the sending pixel data is further in a manner different in more than one respect, in accordance with the more than one configuration parameter.

32. The method of claim 31 wherein:

the more than one configuration parameter comprise a resolution parameter and a data width parameter; and

the sending pixel data comprises sending pixel data having a resolution indicated by the resolution parameter and sending the pixel data over a subset of available pixel data outputs of the panel controller.

33. The method of claim 30 further comprising:

sending auto-zero signals from the panel controller to the display panel; and

responsive to the auto-zero signals, bleeding off accumulated charge in pixels of the display panel.

34. The method of claim 30 further comprising, within sending pixel data for a single video frame:

sending all pixel data for a first color; and then

sending all pixel data for a second color.

35. An electronic data processing device comprising:

a microprocessor;

a graphics controller coupled to the microprocessor;

a display panel; and

a panel controller coupled to receive graphics data from the graphics controller and coupled to provide pixel data to the display panel and to receive a configuration parameter from the display panel.

36. The electronic data processing device of claim 35 wherein the electronic device is a personal computer.

37. The electronic data processing device of claim 35 wherein the electronic device is a palm computer.

38. The electronic data processing device of claim 35 wherein the electronic device is a cell phone.

39. The electronic data processing device of claim 35 wherein the electronic device is a laptop computer.

40. The electronic data processing device of claim 35 wherein the panel controller is bidirectionally coupled to the display panel over at least two pixel data channels to receive the configuration parameter.

41. The electronic data processing device of claim 35 further comprising, in the panel controller:

means for performing sparse refresh of the display panel.